

WHAT IS CLAIMED IS:

1. A surface-mounted anchoring system for use in the construction of a wall having an inner wythe and an outer wythe, said outer wythe formed from a plurality of successive courses with a bed joint between each two adjacent courses, said inner wythe and said outer wythe in a spaced apart relationship the one with the other forming a cavity therebetween, said inner wythe having an exterior layer selected from a group consisting of insulation, wallboard, and insulation and wallboard, said surface-mounted anchoring system comprising:

a wall anchor constructed from a plate-like body having two major faces being the mounting surface and the outer surface, said wall anchor, in turn, comprising;

a pair of legs, each extending from said mounting surface of said plate-like body from an inboard location thereof with the longitudinal axis of each of said legs being substantially normal to said face and having a channel along said axis adapted for sheathing mounting hardware, said legs adapted for insertion at a predetermined insertion point into said exterior layer of said inner wythe;

a covering portion formed at said mounting surface of said plate-like body, said cover portion adapted to preclude penetration of air, moisture and water vapor into said exterior layer;

an apertured receptor portion adjacent a second face of said plate-like body, said apertured receptor portion

adapted to limit displacement of said outer wythe toward and away from said inner wythe;

at least one strengthening rib impressed in said plate-like body parallel to said apertured receptor portion; and, a veneer tie threadedly disposed through said apertured receptor portion of said wall anchor and adapted for embedment in said bed joint of said outer wythe to prevent disengagement from said anchoring system.

2. A surface-mounted anchoring system as described in Claim 1, wherein said wall anchor strengthened by at least one strengthening rib is constructed to meet a 100 lbf. tension and compression rating.

3. A surface-mounted anchoring system as described in Claim 2, wherein said exterior layer is insulation, each said insertion point in said insulation adapted to accommodate one of said legs and the associated mounting hardware.

4. A surface-mounted anchoring system described in Claim 3, wherein each said strengthening rib is impressed to depend from said mounting surface and adapted, upon surface mounting of said wall anchor, to be pressed into said insulation of said inner wythe.

5. A surface-mounted anchoring system as described in Claim 4, wherein said inner wythe is a dry-wall construct and wherein each of said pair of legs at the end opposite said plate-like body terminates in at least two points adapting said anchoring system for minimal thermal transfer between said inner wythe and said anchoring system.

6. A surface-mounted anchoring system as described in Claim 2, wherein each of said pair of legs is formed by enfolding a portion of said plate-like body inwardly and downwardly with the outer surface of the inwardly folded portion substantially coplaner with said mounting surface;

whereby, upon surface mounting of said wall anchor, said plate-like body seals against the openings in said exterior layer of said inner wythe.

7. A surface-mounted anchoring system as described in Claim 2, wherein said anchoring system further comprises:

a reinforcement wire disposed in said bed joint; and, wherein said veneer tie further comprises:

an attachment portion for threading through said apertured receptor;

an insertion portion contiguous with and opposite said attachment portion, said insertion portion being swaged for interconnection with said reinforcement wire;

whereby, upon installation of said anchoring system with an interconnected reinforcing wire in said outer wythe, said system provides a high degree of seismic protection.

8. A surface-mounted anchoring system as described in Claim 2, wherein said anchoring system further comprises:

sealant means for further sealing between said plate-like body and said exterior layer.

9. A surface-mounted anchoring system as described in Claim 2, wherein each of said pair of legs is formed from a hollow tubular member extending with the longitudinal axis thereof substantially normal to said plate-like body and adapted to sheathe said mounting hardware inserted therethrough.

10. A surface-mounted anchoring system as described in Claim 9, wherein said anchoring system further comprises:

sealant means for further sealing between said plate-like body and said exterior layer.

11. A surface-mounted anchoring system described in Claim 10, wherein said sealant means is adhered to said exterior layer prior to mounting said wall anchor thereon.

12. A surface-mounted anchoring system as described in Claim 11, wherein said sealant means is a coating on said cover portion of said plate-like body.